

# **Lua by the eyes of a Perl developer**

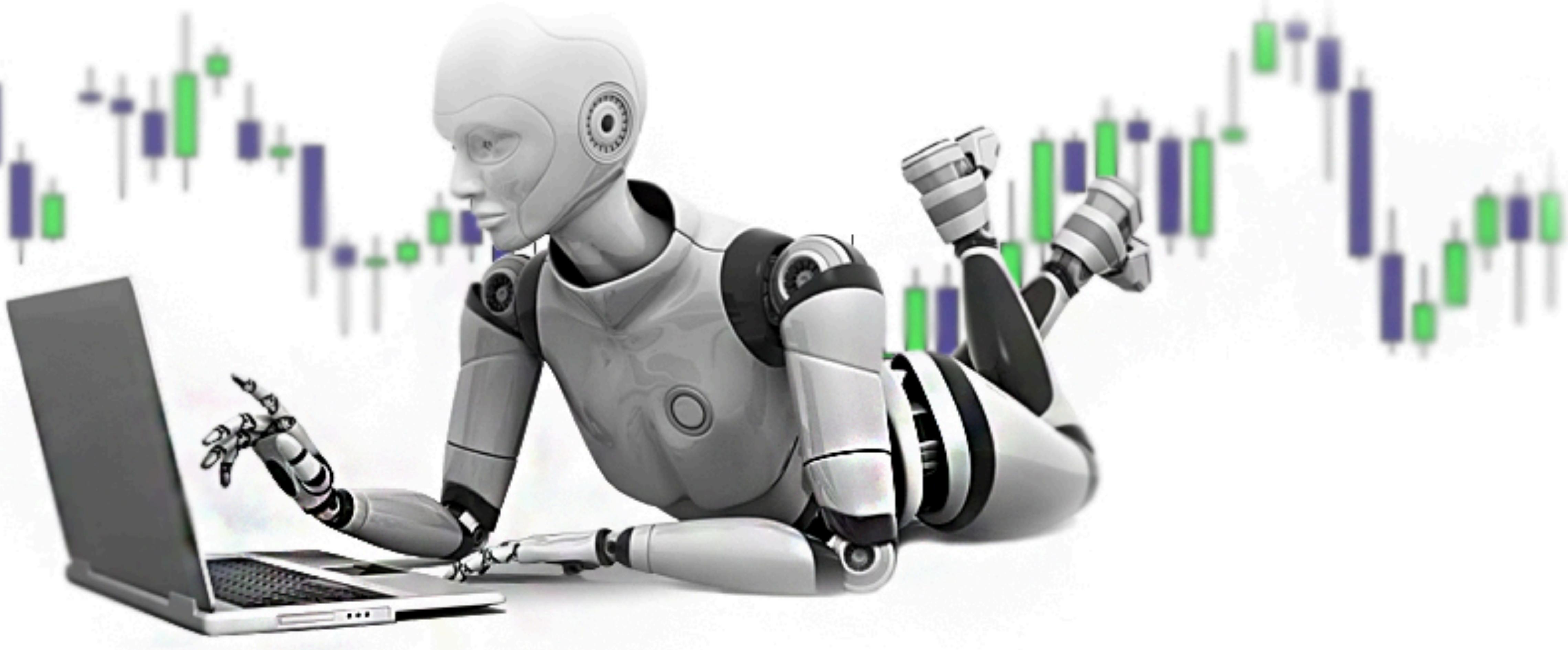
**Ilya Chesnokov**

# Prehistory

I have a friend



Once upon a time he asked me  
to write a trading bot...



**...in Lua**



That time I only knew  
that Lua has a nice community  
:-)

# **Lua is...**

**Fast**

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**Portable**

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**Embeddable**

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**Powerful (but simple)**

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# **Lua is...**

**Fast**

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**Portable**

**Powerful (but simple)**

**Embeddable**

**Free**

**Can be learned  
in virtually no time!**

**Sounds nice, right?**

**Let's learn it!**



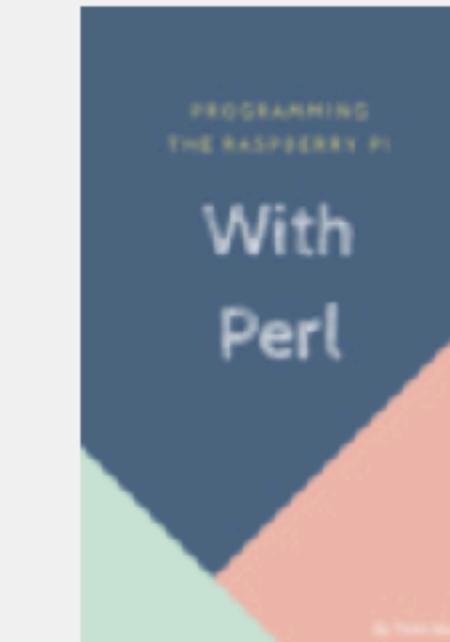
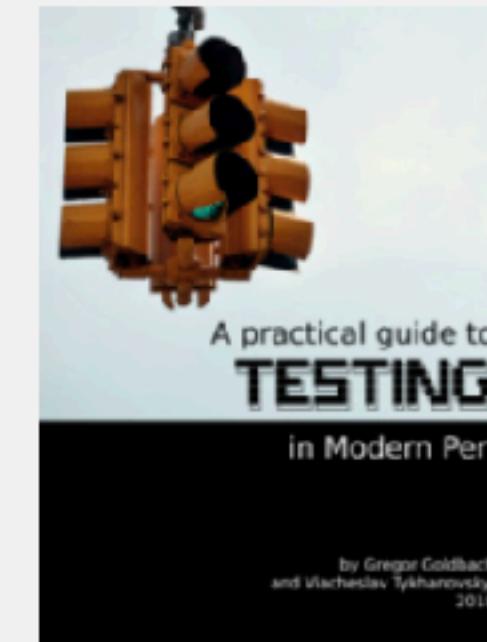
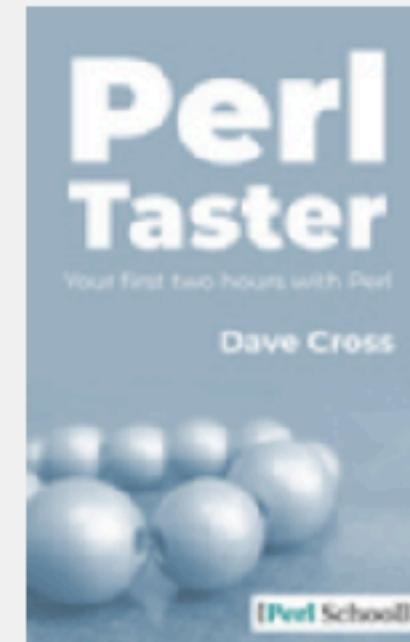
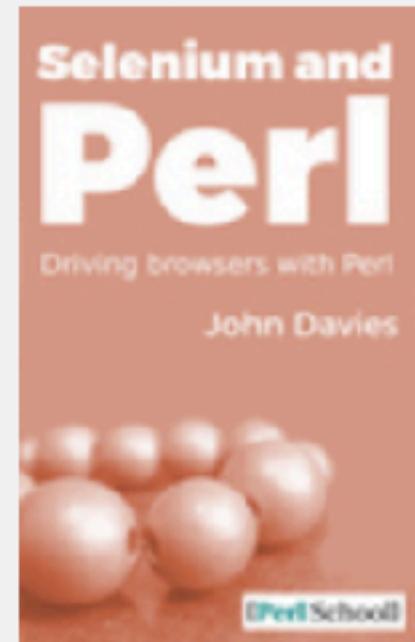
# The Book

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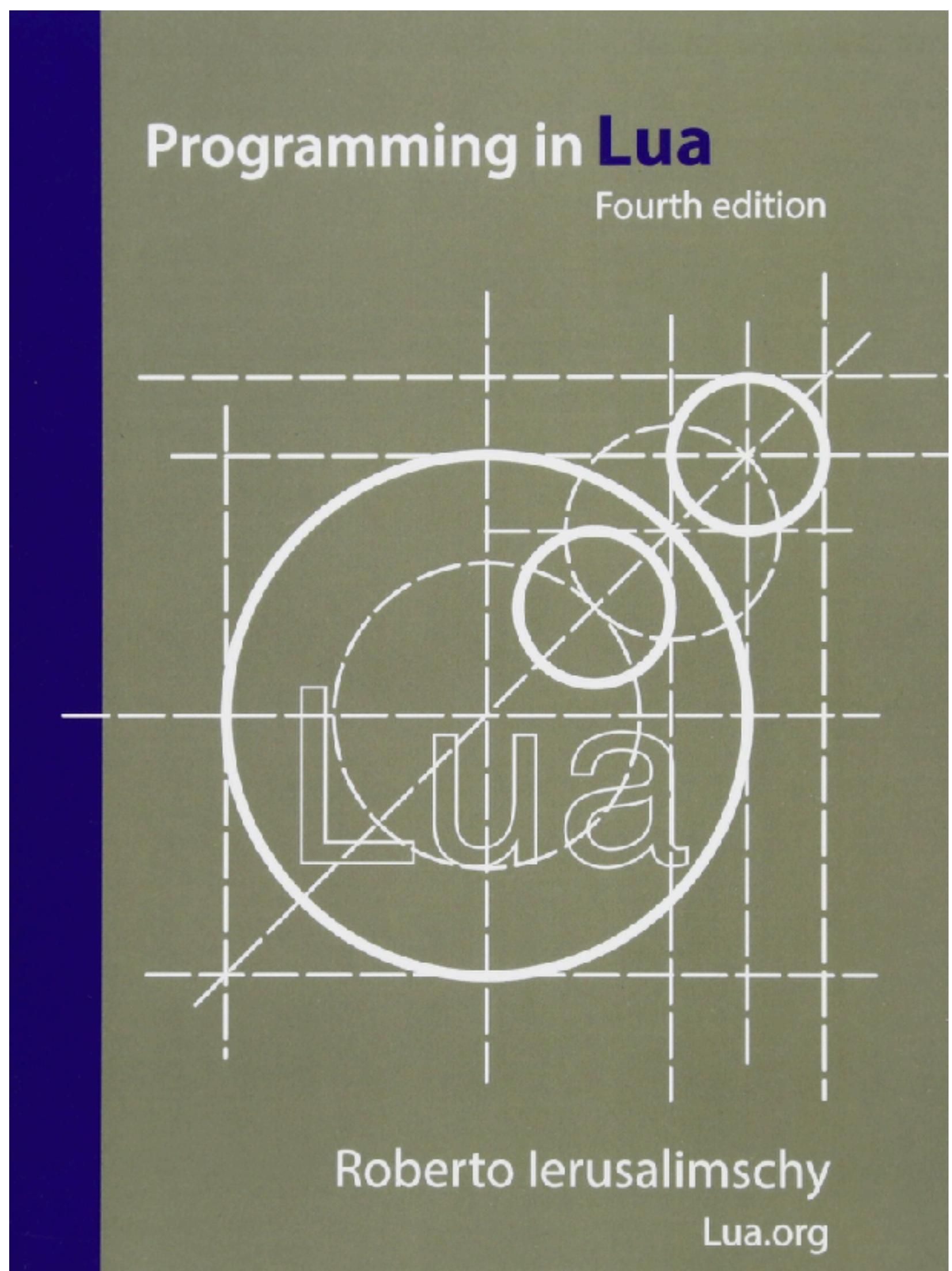
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**~400 in Russian and English**

# Lua



# Programming in Lua

## (the book)

- 1st edition - Lua 5.0
- 2nd edition - Lua 5.1
- 3rd edition - Lua 5.2
- 4th edition - Lua 5.3

**What version to learn / use?**

# Lua 5.x versions

- Lua 5.0 (Apr 2003)
- Lua 5.1 (Feb 2006)
- Lua 5.2 (Dec 2011)
- Lua 5.3 (Jan 2015)

# **LuajIT (5.1-compatible)**

# **LuaJIT primary changes**

- JIT compiler (overall much faster than Lua 5.1)
  - With controllable behavior
- Bit library
- FFI library
- C API extensions

# Perl 6 - the ideal from the future

**Perl 6 - the ideal  
from the future**

**LuajIT - the ideal  
from the past**

# Lua 5.2 primary changes

- **goto** statement
- New library for bitwise operations
- "Official" support for table finalizers
- **\_ENV** variable

# Lua 5.3 primary changes

- Integers
- Bitwise operators
- Basic UTF-8 support
- Functions for packing and unpacking values

**Lua is NOT  
backward compatible!**

**Always check  
your target environment!**

# Getting the interpreter

**Requirements:**  
**Lua + LuaRocks**

**\*nix:**

**use package manager**

**MacOS X:  
homebrew**

**Windows:  
it's complicated**

# Official site (manual installation)

- lua.org - Lua interpreter
- luarocks.org - LuaRocks package manager
  - "make" command: cmake.org
  - C compiler: MSVC, MinGW or **TDM-GCC**
  - Have to adjust linker configuration for MSVCRT or MinGW
  - Conflicts with Strawberry Perl utils in your path (or I failed to configure)

# Automated installation

- luadist.org - "batteries included" distribution
  - Good documentation of installation process for Windows users
  - Fails to compile / install some versions of Lua

# Automated installation

- LuaForWindows - another "batteries included" environment
  - Lua 5.1 only

# Automated installation

- hererocks - Python script for installing Lua(JIT) and LuaRocks
  - Requires Python
  - Suitable for other OS'es

**LuaRocks ships Lua 5.1**

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(you still need make & C)**

# Useful tools

# Editors

- Zero Brain Studio - for Windows
  - Only supports UTF-8 text

# Editors

- Zero Brain Studio - for Windows
  - Only supports UTF-8 text
- Many others
  - I ended up with Vim + Lua plugins

**LuaFormatter**  
simplistic analog  
of PerlTidy for Lua

**luacheck**  
**static analyser / linter**

# luacheck

- Detects
  - undefined global variables
  - unused variables and values
  - unreachable code
  - ...etc

# luacheck

- Similar to **perlcritic**
- "Must have" in your Lua test suite

# Lua syntax

# Blocks

- Block - list of statements, executed sequentially
- Explicitly delimited block:

**do block end**

# Chunks

- Unit of compilation of Lua
  - can be precompiled into binary form and stored
- Syntactically it's a block
- Semantically it's an anonymous function
  - can have arguments
  - can return values

# Variables: global and local

```
a = 1          -- global variable, visible everywhere,  
               -- slow access
```

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a = 1          -- global variable, visible everywhere,  
               -- slow access
```

```
local x      -- local variable,  
               -- only visible in the current block,  
               -- fast access
```

# Strings

'abcd'	-- single line only, no interpolation
"ab\ncd"	-- single line only, interpolates -- escape sequences (\n, \t, etc)
[ [abcd efgh] ]	-- multiline, no interpolation
[=[abcd efgh]=]	-- same thing

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[=[abcd efgh]=]	-- same thing

# String concatenation: ..

'abcd' .. '123' == 'abcd123'

# Comments

```
-- This is a one-line comment
```

```
--[[ This is  
a multiline comment ]]
```

```
--[==[ This is  
also a multiline comment ]==]
```

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# Numbers

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`1` -- integer (since Lua 5.3)

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# Comparison operators

`x == y` -- *x is equal to y*

`x ~= y` -- *x is not equal to y*

# Nil

Nothing, the absence of any useful value

# Booleans

**true** -- *true*

**false** -- *false*

**nil** -- *false*

**"** -- *true*

**0** -- *also true*

# Functions

```
function hello(name)
    print('Hello, ' .. name)
end
```

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function hello(name)
    print('Hello, ' .. name)
end
```

```
local hello = function(name)
    print('Hello, ' .. name)
end
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function hello(name)
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end
```

```
local hello = function(name)
    print('Hello, ' .. name)
end
```

```
local function hello(name)
    print('Hello, ' .. name)
end
```

# Tables

- The sole data-structuring mechanism in Lua
- Represents ordinary arrays, hashes and other data structures
- Values of fields can be anything besides nil

# Tables

```
-- ordinary array
local array = { 'foo', 'bar', 3, 7, 'baz', 9 }
```

# Tables

```
-- ordinary array
local array = { 'foo', 'bar', 3, 7, 'baz', 9 }

-- associative array
local hash = {
    [ 'foo' ] = 'bar',
    [ 1 ]      = 'one',
    baz        = 9,
}
```

# Accessing table fields

```
local array = { foo = 'bar', [500] = 'baz' }

print(array.foo)    -- bar
print(array[500])  -- baz
```

# Interesting facts

- Array indexing starts **with 1**

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- Array indexing starts **with 1**
- Lua implements "sparse" arrays

# Sparse arrays

```
# Perl array
my @values;
$values[999_999] = 1; # 1M elements, a lot of RAM

-- Lua array
local values = {}
values[999999] = 1 -- 1 element, tiny piece of RAM
```

# Array length operator: "#"

**Array length operator: "#"  
(borrowed from Perl's "\$#" ???)**

# Array length operator: "#"

```
local chars = { 'a', 'b' }
print(#chars)    -- 2
```

# Array length operator: "#"

```
local chars = { 'a', 'b' }
print(#chars)      -- 2

chars[4] = 'd'    -- chars: { 'a', 'b', nil, 'd' }
print(#chars)      -- Not determined: 2 or 4
```

# Metatables and metamethods

# Metatables and metamethods

```
local MyMetaTable = {  
    -- ...metamethods declaration...  
}
```

```
local my_table = {}  
setmetatable( {}, MyMetaTable )
```

# Metamethods

- Arithmetic: `__add`, `__sub`, `__mul`, `__div`, ...
- Comparison: `__eq`, `__lt`, `__le`
- String: `__concat`
- Array: `__len`
- Function: `__call`
- Table: `__index`, `__newindex`
- Garbage collection: `__gc`

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# Tables and environment

- `_ENV` - table with environment specific for the chunk (defaults to `_G`)
- `_G` - table with global environment
  - Contains global variables and functions
  - Modules are typically implemented as tables

# **Lua syntax difficulties**

# No explicit ternary operator

Make it up:

```
result = expr and do_if_true() or do_if_false()
```

# Poor regular expressions

- Can install PCRE library
- Or install and learn LPEG - Parsing Expression Grammars for Lua
- (Both need C compiler)

# "return" always goes last

Use:

**do return end**

# func '...' or func { ... } only

```
print "hi"           -- OK
```

```
dump { a = 1, b = 2 } -- OK
```

```
print name          -- NOT OK
```

# Lua syntax benefits

- It has a BNF
- Some constructs are optional: semicolons, parens
- Easy to learn due to its simplicity

# Modules

# Writing a module

# Point.lua

```
Point = {}
```

```
function Point.new()  
    return { x = 0, y = 0 }  
end
```

```
function Point.move(point, dx, dy)  
    point.x = point.x + dx  
    point.y = point.y + dy  
end
```

```
return Point
```

# Point.lua

```
local Point = {}

function Point.new()
    return { x = 0, y = 0 }
end

function Point.move(point, dx, dy)
    point.x = point.x + dx
    point.y = point.y + dy
end

return Point
```

# Point.lua

```
local M = { }

function M.new()
    return { x = 0, y = 0 }
end

function M.move(point, dx, dy)
    point.x = point.x + dx
    point.y = point.y + dy
end

return M
```

# Point.lua

```
return {  
  
    new = function()  
        return { x = 0, y = 0 }  
    end,  
  
    move = function(point, dx, dy)  
        point.x = point.x + dx  
        point.y = point.y + dy  
    end  
  
}
```

# Loading a module

# `require(modname)`

- Checks **package.loaded** table to determine if module is already loaded
- Loads the given module
- By default, uses paths from
  - **package.path** - Lua modules
  - **package.cpath** - compiled C modules for Lua

# package.path

- Is taken from **LUA\_PATH\_5\_3**, **LUA\_PATH**, or default from **luaconf.h**
- Typically something like:
  - `/usr/share/lua/5.3/??.lua;/usr/share/lua/5.3/?/init.lua;./??.lua`

```
package.path =  
    '/usr/share/lua/5.3/??.lua;'  
..  '/usr/share/lua/5.3/?/init.lua;'  
..  './??.lua'
```

```
package.path =  
  '/usr/share/lua/5.3/??.lua;'  
..  '/usr/share/lua/5.3/?/init.lua;'  
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```

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package.path =  
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```

```
package.path =  
  '/usr/share/lua/5.3/?.lua;'  
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..  './?.lua'
```

# package.path

```
package.path = './?.lua'  
  
require('SomeModule')           -- ./SomeModule.lua  
  
require('My.Nice.Module')      -- ./My/Nice/Module.lua
```

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# OOP in Lua

**Lua is not an OO language...**

**Lua is not an OO language...  
...but tables are for the rescue!**

# \_\_index metamethod

- Happens when **table[key]** is queried for nonexistent **key**
- Value can be:
  - a function
  - or a table where **key** is looked up

# \_\_index metamethod

```
local MyClass = {  
    __index = {  
        x = 'foo',  
        y = 10,  
    }  
}
```

```
local obj = setmetatable( {}, MyClass )  
print( obj.x ) -- 'foo'
```

# Point.lua

```
local Point = {}

function Point.new()
    return { x = 0, y = 0 }
end

function Point.move(point, dx, dy)
    point.x = point.x + dx
    point.y = point.y + dy
end

return Point
```

# Point.lua

```
local Point = {}  
Point.__index = Point  
  
function Point:new()  
    return setmetatable({ x = 0, y = 0 }, Point)  
end  
  
function Point:move(dx, dy)  
    self.x = self.x + dx  
    self.y = self.y + dy  
end  
  
return Point
```

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end  
  
function Point:move(dx, dy)  
    self.x = self.x + dx  
    self.y = self.y + dy  
end  
  
return Point
```

# use\_point.lua

```
local Point = require('Point')
```

```
local p1 = Point:new()  
print(p1.x, p1.y) -- 0, 0
```

```
p1:move(10, 20)  
print(p1.x, p1.y) -- 10, 20
```

```
local p2 = Point:new()  
print(p2.x, p2.y) -- 0, 0
```

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# Common OOP techniques

- Inheritance: use another class as a metatable
- Multiple inheritance: use function as the value of `__index`
- Private fields / methods: use local variables / functions

# Destructors

```
sub foo { say 'original sub' }
foo();          # original sub

{
    my $token = Sub::Override->new(
        foo => sub { say 'overridden sub' },
    );
    foo();          # overridden sub
}

# $token goes out of scope...
foo();          # original sub
```

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    );
    foo();           # overridden sub
}

# $token goes out of scope...
foo();           # original sub
```

# \_\_gc metamethod

It is called before the actual garbage collection happens

```
function foo()
    print('original sub')
end
foo() -- original sub

do
    local token = SubOverride:new( {
        foo = function()
            print('overridden sub')
        end
    } )
    foo() -- overridden sub
end

foo() -- overridden sub (WTH?!)
```

```
function foo()
    print('original sub')
end
foo() -- original sub

do
    local token = SubOverride:new( {
        foo = function()
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    } )
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        end
    } )
    foo() -- overridden sub
end

foo() -- overridden sub (WTH?!)
```

The execution of each finaliser  
may occur at any point  
during the execution of the regular code

**Destructors are complicated!**

# OOP frameworks

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- **lua-Coat** - A port of Perl's Coat, Moose-like OOP framework

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- 30log - Single-file module, full-featured OO in 30 lines of code

# OOP frameworks

- `lua-Coat` - A port of Perl's Coat, Moose-like OOP framework
- `30log` - Single-file module, full-featured OO in 30 lines of code
- `MiddleClass` - OO module with inheritance, mixins (roles), class variables, etc

And many more

[lua-users.org/wiki/](http://lua-users.org/wiki/)

ObjectOrientedProgramming

# Standard library

# Standard library

- Basic functions
- coroutine
- package
- string
- utf8
- table
- math
- io
- os
- debug

**Standard library in Perl:  
~200 modules in v5.26.1**

**Need more modules?**

[LuaRocks.org](http://LuaRocks.org)

# **Unofficial Lua module repository**

Much fewer modules  
than on CPAN :-(

## [File::Find - Traverse a directory tree.](#) 313 ++

These are functions for searching through directory trees doing work on each file found similar to  
They work similarly but have subtle differences. [find](#) [find\(&wanted,...\)](#)

[XSAYYERX/perl-5.28.0](#) - Jun 23, 2018 - [Search in distribution](#)

[File::Find - Traverse a directory tree.](#)

- [O - Generic interface to Perl Compiler backends](#)
- [O - Generic interface to Perl Compiler backends](#)

[249 more results from perl »](#)

## [File::Find::Age - mtime sorted files to easily find newest or oldest](#) ++

[JKUTEJ/File-Find-Age-0.01](#) - Jun 30, 2012 - [Search in distribution](#)

## [File::Find::Rex - Combines simpler File::Find interface with support for regular expressions](#)

This module provides an easy to use object oriented interface to "File::Find" and adds the ability to:  
\* Find results returned as array or via a callback subroutine

[ROLANDAY/File-Find-Rex-1.00](#) - Jan 24, 2018 - [Search in distribution](#)

## [File::Find::Node - Object oriented directory tree traverser](#) ++

The constructor `File::Find::Node->new` creates a top level `File::Find::Node` object for the specified directory. It takes a hash reference of options for each item in the traversal. The `$f->post_process` method takes a code reference which will be called after each item has been processed.

[find file](#)[Install](#) · [Docs](#) · **chesnokov** · [Upload](#) · [Settings](#) · [Log Out](#)

## Search

Query [find file](#)Include non-root [Search](#)

## Modules

[love-ora](#) by [clofresh](#) — downloads: 75

A library for loading OpenRaster files into LÖVE games.

## Users

[findstr](#)[filerhvm](#)

Don't see what you expect? [Give feedback on our issues tracker](#)

# Google for "Lua find file"

- Links to various game engine APIs
- Suggestions to write it manually
- And finally, a link to **lua-users** wiki page with source code of directory iterator function!!!

**Why wasn't it released  
as a Luarocks module?!**

# Other sources of reusable code

- Lua users wiki: [lua-users.org](http://lua-users.org)
- Github & friends
- "All in one" library collections:
  - Independent collections: Penlight
  - Product- or framework-based: OpenResty, Tarantool, Corona, Love2D, ...

**Copy & paste is encouraged  
(implicitly)**

# Module names are inconsistent

- luarocks install **lua-TestMore** <-> require 'Test.More'
- luarocks install **luafilesystem** <-> require 'lfs'

# Documentation

**No POD  
(or any replacement)**

# luarocks doc <package>

- "Tries to load the documentation using a series of heuristic"
  - Looks for project homepage using rock specification
  - Looks for file named like:  
`/ (index|readme|manual) ( [.] (html|?|txt|md|textile)? ) /xi`

**Documentation is not displayed  
at luarocks.org**

# You have to host docs separately

- github.com & friends
- Documentation platforms: readme.io,  
readthedocs.io, etc
- Maintainers' websites (often broken)

# Unit testing

# Place of testing in Lua infrastructure

# Tests for Lua interpreter

- Don't run when you install it from source
- They are not even in the same repository

# Tests during module installation

- **luarocks** doesn't try to run them
  - You're not encouraged to write tests

# "Testing" section in PiL book

- Is absent
- (Also, it doesn't mention **luarocks**)

**lua-users.org/wiki/UnitTesting**

# Lua unit testing frameworks

- Busted - BDD unit testing library, produces different outputs (TAP included)
- LuaUnit (Lua 5.2 and below only)
- lua-TestMore (yes, Perl-style testing!)

I wrote my own

I wrote my own  
[github.com/ichesnokov/lua-TestClass](https://github.com/ichesnokov/lua-TestClass)

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[github.com/ichesnokov/lua-TestClass](https://github.com/ichesnokov/lua-TestClass)  
#quickndirty #WIP #usablethough

# Community

# Communication methods

- lua-l mailing list - primary way of communication
- Several IRC / Telegram channels
- Local user groups / meetups

Source: [lua.org/community.html](http://lua.org/community.html)

# User groups

- 2-3 in Europe - London, Moscow, Paris (?)
- 2 in the US

Source: [lua-users.org/wiki/UserGroups](http://lua-users.org/wiki/UserGroups)

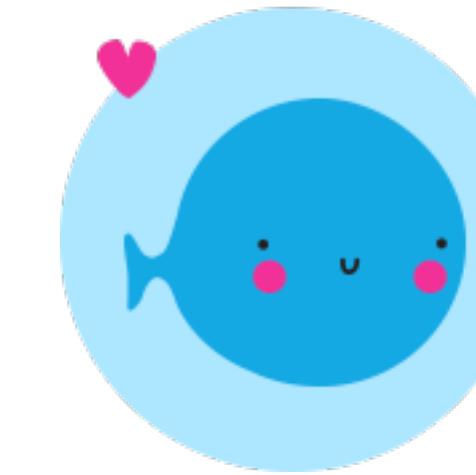
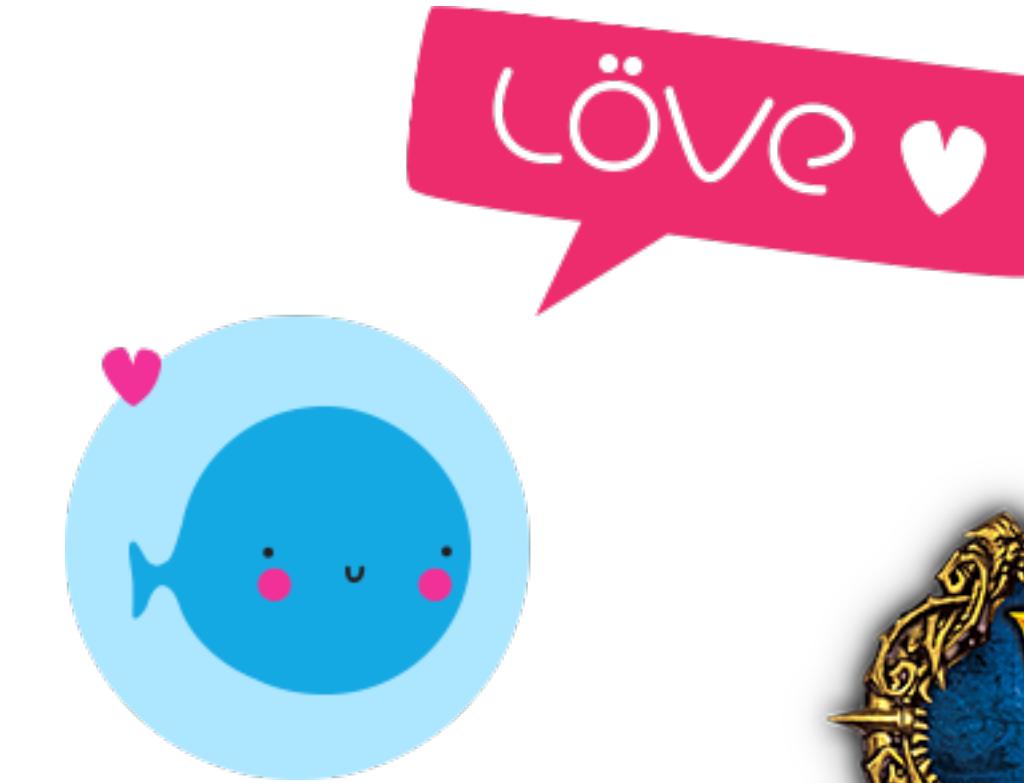
# Conferences / meetups

- Local meet-ups
- Lua devroom at FOSDEM (sometimes)
- Lua Conference - typically in Portuguese
- Lua Workshop - yearly event, typically in English
  - Next one: 7-8 Sep 2018 in Kaunas, Lithuania

**Talks at general-purpose  
or gamedev conferences**

**Communities around products  
that support Lua**

# There are many of them!



~ CLASSIC ~



**Community overall:  
Friendly, supportive  
and lots of fun**

# Conclusions

**Do not treat Lua  
as a general-purpose language!**

**"Scripting" and "embeddable"  
words are not just a sound!**

# Help Lua!

- Learn it
- Release a module or two (or three) to LuaRocks
  - maybe port some Perl library
- Come to Lua conference/meetup, make a talk

**Let Lua help you!**

**Let Lua help you!**  
**Use it in your project maybe?**

**Have fun!**

... ■

**And yeah, I created a bot!**

**And yeah, I created a bot!  
It even (mostly) worked!**



**(not really)**

# Questions?

**Thank you!**